

Real Time Spray Monitoring

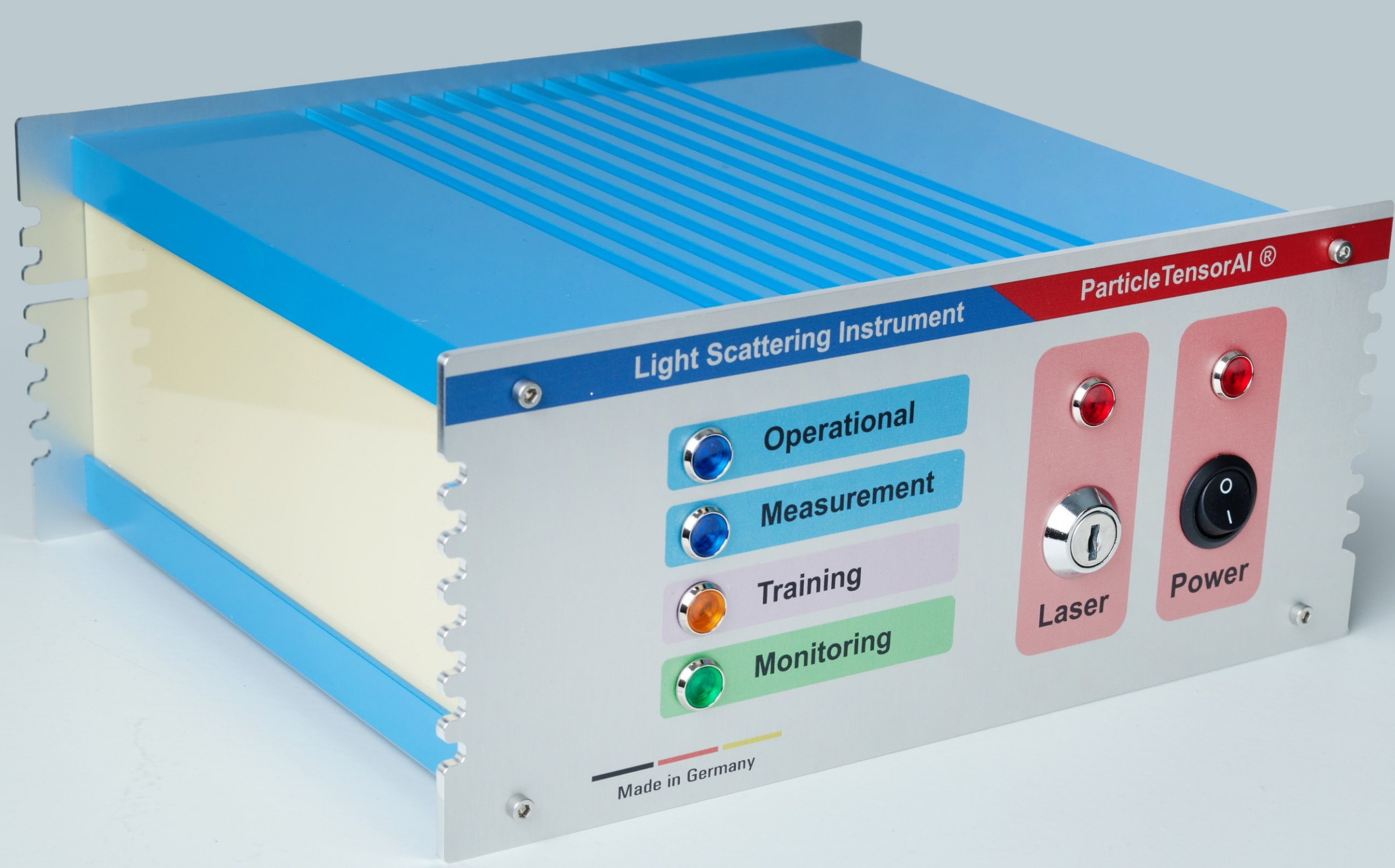


Integrating Powder Paint Sprays ParticleTensorAI®



In the integrating method, the collective light scattering signals from particles are continuously captured into a tensor.

These tensor data are analyzed using advanced convolutional neural networks, enabling a comprehensive and robust characterization of complex powder spray systems. This AI-driven approach allows reliable monitoring of spray stability, process conditions, and material properties - providing deep insights into powder-based coating processes even under challenging industrial conditions.



Counting Liquid Paint Sprays SprayQuantAI®



In the counting method, each individual paint droplet is optically detected and analyzed based on its unique light scattering signature.

This enables determination of droplet size, velocity, and composition. By evaluating every single droplet, the system delivers droplet-resolved data along with robust statistical insights. This level of detail allows monitoring and control of liquid spray processes, as well as continuous assessment of paint quality. The method is specifically designed for real-time monitoring of liquid paint sprays in industrial environments.

